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Thomsen, G. and Wrana, J.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	6,103,869	08/15/2000	Souchelnytokyi et al.	530	330	
AB	6,087,122	07/11/2000	Hustad et al.	435	29	
AC	6,060,262	05/09/2000	Beer-Romero et al.	435	15	
AD	6,001,619	12/14/1999	Beach et al.	435	193	
AE	09/385,198	08/30/1999	Hoekstra et al.	574	444	

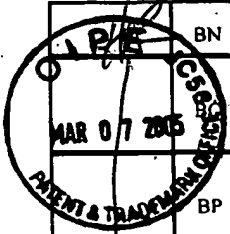
FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO


OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

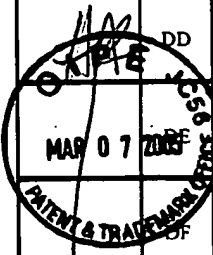
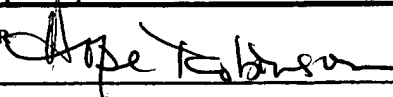
AF	Afrakhte, et al. 1998. "Induction of Inhibitory Smad6 and Smad7 mRNA by TGF- β family members," Biochemical and Biophysical Research Communications 244: 505-511.
AG	Baker, et al. 1996. "A novel mesoderm inducer, Madr2, functions in the activin signal transduction pathway," Genes & Development 10:1880-1889.
AH	Bartel, et al. 1990. "The recognition component of the N-end rule pathway," EMBO Journal 9: 3179-3189.
AI	Bartel, et al. 1995. "Analyzing protein-protein interactions using two-hybrid system," Methods in Enzymology, Vol. 254, (24):1-263.
AJ	Bashirullah, et al. 1998. "RNA Localization in Development," Annu. Rev. Biochem. 67:335-94.
AK	Bitzer, et al. 2000. "A mechanism of suppression of TGF- β /Smad signaling by NF- κ B/Rel A," Genes & Development 14:187-197.
AL	Bonifacino, et al. 1998. "Ubiquitin and the Control of Protein Fate in the Secretory and Endocytic Pathways," Ann. Rev. Cell. Biol. 14:19-57.
AM	Chen, et al. 1995. "The WW domain of Yes-associated protein binds a proline-rich ligand that differs from the consensus established for Src homology 3-binding modules," Proc. Natl. Acad. Sci. USA 82:7819-7823.
AN	Chung, et al. 1998. "A novel, putative MEK kinase controls developmental timing and spatial patterning in Dictyostelium and is regulated by ubiquitin-mediated protein degradation," Genes Dev. 12: 3564-78.
AO	Coffman, T.M., 1997. "A genetic approach for studying the physiology of the Type 1A (AT _{1A}) Angiotensin Receptor," Seminars in Nephrology 17:404-411.
AP	Derynck, et al., 1998, "Smads: Transcriptional Activators of TGF- β Responses," Cell 19:737-740.
AQ	Dickson, B.J., 1998. "Photoreceptor development: Breaking down the barriers," Current Biology 8:R90-R92.
AR	Eppert, et al. 1996. "MADR2 Maps to 18q21 and encodes a TGF β -Regulated MAD-Related protein that is functionally mutated in Colorectal Carcinoma," Cell 86: 543-552.

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57	AU	Fainsod, et al. 1994. "On the function of BMP-4 in patterning the marginal zone of the Xenopus embryo," Embo J 13:5015-25.
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60	AX	Graff, et al. 1996. "Xenopus Mad proteins transduce distinct subsets of signals for the TGF β Superfamily," Cell 86:1-20.
61	AY	Harland, et al. 1997. "Formation and function of Spemann's Organizer," Ann. Rev. Cell Biol. 13:611-667.
62	AZ	Harvey, et al. 1999. "Nedd4-like proteins: an emerging family of ubiquitin-protein ligases implicated in diverse cellular functions." Trends Cell Biol. 9:166-169.
63	BA	Hayashi, et al. 1997. "The MAD-Related protein Smad7 Associates with the TGF β Receptor and Functions as an antagonist of TGF β signaling," Cell 89:1165-1173.
64	BB	Hein, et al. 1995. "NPI1, an essential yeast gene involved in induced degradation of Gap1 and Fur4 permeases, encodes the Rsp5 ubiquitin-protein ligase," Mol. Microbiol. 18:77-87.
65	BC	Heldin, et al. 1997. "TGF- β signalling from cell membrane to nucleus through SMAD proteins," Nature 390:465-71.
66	BD	Hemmati-Brivanlou, et al. 1995. "Ventral mesodermal patterning in Xenopus Embryos: expression patterns and activities of BMP-2 and BMP-4," Dev. Genet. 17:78-89.
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70	BH	Hicke, L., 1999. "Gettin' down with ubiquitin: turning off cell-surface receptors, transporters and channels," Trends Cell Biol. 9:107-112.
71	BI	Hochstrasser, M., 1996. "Ubiquitin-Dependent protein degradation," Ann. Rev. Genet. 30:405-439.
72	BJ	Hoodless, et al. 1996. "MADR1, a MAD-Related protein that functions in BMP2 signaling pathways", Cell 85:489-500.
73	BK	Horb, et al. 1997. "A vegetally-localized T-box transcription factor in Xenopus eggs specifies mesoderm and endoderm and is essential for embryonic mesoderm formation," Dev. 124:1689-1698.
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75	BM	Huibregtse, et al. 1995. "A family of proteins structurally and functionally related to the E6-AP ubiquitin-protein ligase," Proc. Natl. Acad. Sci. U.S.A. 92:2563-7.



BN	Imamura, et al. 1997. "Smad6 inhibits signaling by the TGF- β superfamily," Nature 389:622-626.
BP	Ishisaki, et al. 1998. "Smad7 is an activin-inducible inhibitor of activin-induced growth arrest and apoptosis in Mouse B Cells," J. Biol. Chem. 273:24293-24296.
BQ	Itoh, et al. 1998. "Transforming growth factor β 1 induces nuclear export of inhibitory Smad7," J. Biol. Chem. 273:29195-29201.
BR	Jiang, et al. 1998. "Regulation of the Hedgehog and Wingless signalling pathways by the F-box/WD40-repeat protein Slimb," Nature 391:493-6.
BS	Joazeiro, et al. 1999. "The tyrosine kinase negative regulator c-Cbl as a RING-Type, E2-Dependent ubiquitin-protein ligase," Science 286:309-312.
BT	Jonk, et al. 1998. "Identification and functional characterization of a Smad binding element (SBE) in the JunB promoter that acts as a transforming growth Factor- β , activin, and bone morphogenetic protein-inducible enhancer," J. Biol. Chem. 273:21145.
BU	Joseph, et al. 1998. "Mutant Vg1 ligands disrupt endoderm and mesoderm formation in Xenopus embryos," Development 125:2677-85.
BV	Kawabata, et al. 1998. "Signal transduction by bone morphogenetic proteins," Cytokine Growth Factor Rev. 9:49-61.
BW	Kim, et al. 1997, "Drosophila Mad binds to DNA and directly mediates activation of vestigial by Decapentaplegic," Nature 388:304.
BX	Kretschmar, et al. 1997. "The TGF- β family mediator Smad1 is phosphorylated directly and activated functionally by the BMP receptor kinase," Genes Dev. 11:984-95.
BY	Kumar, et al. 1997. "cDNA Cloning, expression analysis, and mapping of the Mouse Nedd4 Gene," Genomics 40:435-43.
BZ	Kwon, et al. 1998. "The mouse and human genes encoding the recognition component of the N-end rule pathway," Proc. Natl. Acad. Sci. U.S.A. 95:7898-903.
CA	Levkowitz, et al. 1999. "Ubiquitin ligase activity and tyrosine phosphorylation underlie suppression of growth factor signaling by c-Cbl/Sli-1," Mol. Cell 4:1029-1040.
CB	Lindsay, et al. 1998. "A deubiquitinating enzyme that disassembles free polyubiquitin chains is required for development but not growth in dictyostelium," J. Bio. Chem. 273:24131-8.
CC	Macias-Silva, et al. 1996. "MADR2 is a substrate of the TGF β receptor and its phosphorylation is required for nuclear accumulation and signaling," Cell 87:1215-1224.
CD	Macias-Silva, et al. 1998. "Specific activation of Smad1 signaling pathways by the BMP7 Type 1 Receptor, ALK2," J. Biol. Chem. 273:25628-36.
CE	Massague, et al. 2000. "Controlling TGF- β signaling," Genes Deve. 14:627-644.
CF	Massague, J., 1998. "TGF- β signal transduction," Ann. Rev. Biochem. 67:753-791.
CG	Miyazono, K., 2000. "TGF- β signaling by Smad proteins," Cyto. Growth Factor Rev. 11:15-22.
CH	Murakami, et al. 1996. "Hypertensive and Hypotensive Mice produced by the introduction and disruption of genes on the Renin-Angiotensin system," Blood Press. Suppl. 2:36.

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		Nakao, et al. 1997. "Identification of Smad7, a TGF β -inducible antagonist of TGF- β signalling," Nature 389:631-635.
		Nalefski, et al. 1996. "The C2 domain calcium-binding motif: Structural and functional diversity," Protein Sci. 5:2375-2390.
	CL	Nefsky, et al. 1996. "Pub1 acts as an E6-AP-like protein ubiquitin ligase in the degradation of cdc25," Embo. J. 15:1301-1312.
	CM	Patton, et al. 1998. "Combinatorial control in ubiquitin-dependent proteolysis: don't Skp the F-box hypothesis," Trends. Genet. 14:236-243.
	CN	Plant, et al. 1997. "The c2 domain of the ubiquitin protein ligase Nedd4 mediates Ca ²⁺ -dependent plasma membrane localization," J. Biol. Chem. 272:32329-36.
	CO	Pukatzki, et al. 1998. "A novel component involved in ubiquitination is required for development of Dictyostelium discoideum," J Biol. Chem. 273:24131-8.
	CP	Reddi, A. H., 1998. "Role of morphogenetic proteins in skeletal tissue engineering and regeneration," Nature Biotech. 16:247-252.
	CQ	Reeck, et al. 1987. "Homology" in proteins and nucleic acids: A terminology muddle and a way out of it," Cell 50:667.
	CR	Rotin, D., 1998. "WW (WWP) domains: From structure to function," Curr. Topics Microbiol. Immunol. 228:115-133.
	CS	Sasai, et al. 1997. "Ectodermal patterning in vertebrate embryos," Dev. Biol. 182:5-20.
	CT	Scheiffner, et al. 1993. "The HPV-16 E6 and E6-AP Complex functions as a ubiquitin-protein ligase in the ubiquitination of p53," Cell 75:495-505.
	CU	Staub, et al. 1997. "Immunolocalization of the ubiquitin-protein ligase Nedd4 in tissues expressing the epithelial Na ⁺ channel (EnaC)," Am. J Physiol. 272:C1871-80.
	CV	Staub, et al. 2000. "Regulation of stability and function of the epithelial Na ⁺ channel (EnaC) by utiquitination," Kidney Int. 57:809-815
	CW	Staub, et al. 1997. "Regulation of the epithelial Na ⁺ channel by Nedd4 and ubiquitination," EMBO J 16:6325-6336.
	CX	Staub, et al. 1996. "WW domains," Structure 4:495-499.
	CY	Staub, et al. 1996. "WW domains of Nedd4 bind to the proline-rich PY motifs in the epithelial Na ⁺ channel deleted in Liddle's syndrome," EMBO J. 15:2371-2380.
	CZ	Suzuki, et al. 1997. "Smad5 induces ventral fates in Xenopus embryo," Dev. Biol. 184:402-405.
	DA	Takase, et al. 1998. "Induction of Smad6 mRNA by bone morphogenetic proteins," Biochem. Biophys. Res. Commun. 244:26-29.
	DB	Thomsen, G.H., 1997. "Antagonism within and around the organizer: BMP inhibitors in vertebrate body patterning," Trends Genet. 13:209-211.
✓	DC	Thomsen, G.H., 1996. "Xenopus mothers against decapentaplegic is an embryonic ventralizing agent that acts downstream of the BMP-2/4 receptor," Development 122:2359-66.

	DD	Tsukazaki, et al. 1998. "SARA , a FYVE domain protein that recruits Smad2 to the TGFβ receptor," Cell 95:799-791.
	DE	Ulloa, et al. 1999. "Inhibition of transforming growth factor-β/SMAD signalling by the interferon-γ/STAT pathway," Nature 397:710-713.
	DF	van Kerkhof, et al. 2000. "Endocytosis and degradation of the growth hormone receptor are proteasome-dependent," J. Biol. Chem. 275:1575-1580.
	DG	Wang, , et al. 1999. "Functional domains of the Rsp5 Ubiquitin-protein ligase," Mol. Cell Biol. 19:342-52.
	DH	Whitman, M., 1998. "Smads and early developmental signaling by the TGFβ superfamily," Genes and Dev. 12:2445-2462.
	DI	Wigler, et al. 1979. "Transformation of mamalian cells with genes from procaryotes and eucaryotes," Cell 16:777-785.
	DJ	Wilson, et al. 1997. "Concentration-dependent patterning of the Xenopus ectoderm by BMP4 and its signal transducer Smad1," Dev. 124:3177-3184.
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